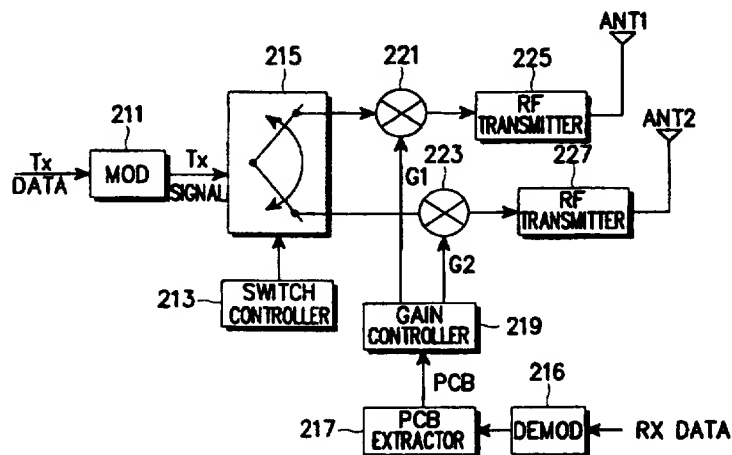




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(54) Title: FORWARD LINK POWER CONTROL DEVICE AND METHODS FOR A MOBILE COMMUNICATION SYSTEM SUPPORTING TRANSMISSION DIVERSITY

**(57) Abstract**

A forward link power control device for a mobile communication system supporting a transmission diversity function. The power control device comprises a base station device and mobile station device. The base station device transmits a traffic signal via at least two antennas, switches the traffic signal to be transmitted to any one of the two antennas based on a power control group period, and equally controls transmission power of the traffic signal being transmitted to the antennas according to power control information received via a reverse link. The mobile station device receives signals output from the antennas of the base station using one antenna, separately measures power of a traffic signal and an interference signal received for a power control group duration which is at least twice an antenna switching time of the base station device, averages the measured value to generate a power control information and multiplexes the power control information to a reverse link transmission signal to transmit the power control information to the base station.